

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options,  
 resulting in a closer connection to BABS  
 NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
 fields  
 NEWS 5 AUG 02 CAPLUS and CA patent records enhanced with European and Japan  
 Patent Office Classifications  
 NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
 (Version 7.01 for Windows) now available  
 NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
 NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
 status data from INPADOC  
 NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
 NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
 STN Express with Discover!  
 NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
 NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
 NEWS 13 SEP 27 SWETSCAN will no longer be available on STN

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT  
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
 specific topic.

All use of STN is subject to the provisions of the STN Customer  
 agreement. Please note that this agreement limits use to scientific  
 research. Use for software development or design or implementation  
 of commercial gateways or other similar uses is prohibited and may  
 result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 20:39:17 ON 26 OCT 2004

=> file uspatall  
 COST IN U.S. DOLLARS SINCE FILE TOTAL  
 ENTRY SESSION  
 FULL ESTIMATED COST 0.21 0.21

FILE 'USPATFULL' ENTERED AT 20:39:29 ON 26 OCT 2004  
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 20:39:29 ON 26 OCT 2004  
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> e ribes g/in  
 E1 1 RIBES CAROLYN W/IN  
 E2 1 RIBES DELPHINE/IN  
 E3 0 --> RIBES G/IN  
 E4 2 RIBES GERARD/IN  
 E5 6 RIBES HERVE/IN  
 E6 1 RIBES JOAN MARIA MAS/IN  
 E7 2 RIBES LAURENT/IN  
 E8 2 RIBES MAURICIO/IN

E9 3 RIBES MICHEL/IN  
E10 2 RIBESSE JACQUES/IN  
E11 1 RIBESSE JACQUES MAX/IN  
E12 1 RIBET JEAN PAUL/IN

=> s e4

L1 2 "RIBES GERARD"/IN

=> d 1-2

L1 ANSWER 1 OF 2 USPATFULL on STN

Full Text	References
-----------	------------

AN 2004:38223 USPATFULL  
TI Pharmaceutical or dietary composition containing a vegetable oil, in particular olive oil and sitosterol  
IN Maurel, Jean-Claude, Castries, FRANCE  
Cros, Gerard, Montpellier, GERMANY, FEDERAL REPUBLIC OF  
**Ribes, Gerard, Montpellier, FRANCE**  
PI US 2004028759 A1 20040212  
AI US 2003-415092 A1 20030908 (10)  
WO 2001-EP12757 20011026  
PRAI GB 2000-26609 20001031  
DT Utility  
FS APPLICATION  
LN.CNT 479  
INCL INCLM: 424/769.000  
NCL NCLM: 424/769.000  
IC [7]  
ICM: A61K035-78  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 2 OF 2 USPATFULL on STN

Full Text	References
-----------	------------

AN 95:105869 USPATFULL  
TI Treatment of non-insulin-dependent diabetes  
IN Sauvaire, Yves, Montferrier sur Lez, France  
**Ribes, Gerard, Montpellier, France**  
PA Laboratories Monal, France (non-U.S. corporation)  
PI US 5470879 19951128  
AI US 1994-364079 19941223 (8)  
RLI Division of Ser. No. US 1993-113951, filed on 31 Aug 1993, now abandoned  
PRAI FR 1992-10644 19920907  
DT Utility  
FS Granted  
LN.CNT 431  
INCL INCLM: 514/561.000  
NCL NCLM: 514/561.000  
IC [6]  
ICM: A61K035-78  
EXF 514/561

=> e taouis m/in

E1 1 TAOUFIK MOSTAPHA/IN  
E2 1 TAOUIL TONY F/IN  
E3 0 --> TAOUIS M/IN  
E4 1 TAOUK MICHAEL Y/IN  
E5 1 TAOULI ADBERRAHIM/IN  
E6 1 TAOYAMA MINORU/IN  
E7 1 TAP GEERT E/IN  
E8 7 TAP HENRY H/IN  
E9 3 TAPA BARNABAS/IN

E10 1 TAPADAR INDRANIL B/IN  
E11 1 TAPADAR INDRANIL BOB/IN  
E12 1 TAPAI ANTAL/IN

=> e petit r/in

E1 1 PETIT PIERRE H F/IN  
E2 1 PETIT PIERRE MARIE/IN  
E3 0 --> PETIT R/IN  
E4 1 PETIT RAYMOND/IN  
E5 2 PETIT RAYMOND C/IN  
E6 1 PETIT REGIS/IN  
E7 28 PETIT ROBERT/IN  
E8 7 PETIT ROBERT G/IN  
E9 2 PETIT ROBERT G II/IN  
E10 1 PETIT ROBERTS CORAL A/IN  
E11 3 PETIT ROGER/IN  
E12 1 PETIT ROGER M/IN

=>

=> e

E13 3 PETIT ROLAND/IN  
E14 3 PETIT SAMUEL/IN  
E15 10 PETIT SERGE/IN  
E16 9 PETIT STEPHANE/IN  
E17 1 PETIT STEVEN HAROLD/IN  
E18 1 PETIT STEVEN M/IN  
E19 1 PETIT THIERRY/IN  
E20 4 PETIT THOMAS J/IN  
E21 1 PETIT TODD MICHEAL/IN  
E22 1 PETIT VINCENT/IN  
E23 12 PETIT WILLIAM A/IN  
E24 3 PETIT XAVIER/IN

=> s e11

L2 3 "PETIT ROGER"/IN

=> d 1-3

L2 ANSWER 1 OF 3 USPATFULL on STN

Full Text 

AN 2002:8409 USPATFULL  
TI Portable electronic appliance provided with an integrated radio communication devivce having an antenna for transmitting and/or receiving electromagnetic waves  
IN Martinez, Eric, Sartrouville, FRANCE  
**Petit, Roger**, Sartrouville, FRANCE  
PA ALCATEL (non-U.S. corporation)  
PI US 2002004409 A1 20020110  
AI US 2001-897139 A1 20010703 (9)  
PRAI FR 2000-8965 20000710  
DT Utility  
FS APPLICATION  
LN.CNT 294  
INCL INCLM: 455/550.000  
INCLS: 455/090.000  
NCL NCLM: 455/550.000  
NCLS: 455/090.000  
IC [7]  
ICM: H04M001-00

L2 ANSWER 2 OF 3 USPATFULL on STN

Full Text 

AN 1999:70403 USPATFULL  
 TI Identity card reader device  
 IN Savalle, Patrick, Rueil Malmaison, France  
**Petit, Roger**, Sartrouville, France  
 PA Alcatel Mobile Phones, Paris, France (non-U.S. corporation)  
 PI US 5915016 19990622  
 AI US 1996-768396 19961218 (8)  
 PRAI FR 1995-15054 19951219  
 DT Utility  
 FS Granted  
 LN.CNT 135  
 INCL INCLM: 379/433.000  
 INCLS: 235/441.000; 235/492.000  
 NCL NCLM: 379/433.090  
 NCLS: 235/441.000; 235/492.000  
 IC [6]  
 ICM: H04M001-00  
 EXF 235/441; 379/433; 379/369

L2 ANSWER 3 OF 3 USPATFULL on STN

Full Text	References
-----------	------------

AN 91:11991 USPATFULL  
 TI Mouthpiece for wind instrument, and corresponding ligature and mouthpiece cover  
 IN **Petit, Roger**, 27, boulevard de l'Est, 93340 Le Raincy, France  
 PI US 4991483 19910212  
 AI US 1989-454942 19891222 (7)  
 PRAI FR 1988-17117 19881223  
 DT Utility  
 FS Granted  
 LN.CNT 413  
 INCL INCLM: 084/383.000R  
 NCL NCLM: 084/383.000R  
 IC [5]  
 ICM: G10D009-02  
 EXF 084/383R

=> e broca c/in

E1	1	BROBYN SUSAN E/IN
E2	1	BROC GUILLAUME/IN
E3	0 -->	BROCA C/IN
E4	1	BROCARD DIDIER/IN
E5	3	BROCARD EMMANUEL/IN
E6	1	BROCARD FABRICE/IN
E7	1	BROCARD FRANCOIS/IN
E8	1	BROCARD HUGUETTE/IN
E9	1	BROCARD JACQUES/IN
E10	1	BROCARD JACQUES BERTRAND/IN
E11	23	BROCARD JEAN MARIE/IN
E12	1	BROCART ALAIN/IN

=> e broca/in

E1	1	BROBYN SUSAN E/IN
E2	1	BROC GUILLAUME/IN
E3	0 -->	BROCA/IN
E4	1	BROCARD DIDIER/IN
E5	3	BROCARD EMMANUEL/IN
E6	1	BROCARD FABRICE/IN
E7	1	BROCARD FRANCOIS/IN
E8	1	BROCARD HUGUETTE/IN
E9	1	BROCARD JACQUES/IN
E10	1	BROCARD JACQUES BERTRAND/IN

E11 23 BROCARD JEAN MARIE/IN  
E12 1 BROCARD ALAIN/IN

=> e sauvaire/in

E1 4 SAUVAIGO SYLVIE/IN  
E2 1 SAUVAIN ROGER/IN  
E3 0 --> SAUVAIRE/IN  
E4 2 SAUVAIRE YVES/IN  
E5 1 SAUVAJOL RENE/IN  
E6 2 SAUVAN GERARD/IN  
E7 2 SAUVAN JACQUES/IN  
E8 4 SAUVAN JACQUES LOUIS/IN  
E9 1 SAUVAN MARCEL/IN  
E10 5 SAUVANET MAURICE/IN  
E11 1 SAUVANET MAURICE M/IN  
E12 2 SAUVANT MOYNOT VALERIE/IN

=> s e4

L3 2 "SAUVAIRE YVES"/IN

=> d 1-2

L3 ANSWER 1 OF 2 USPATFULL on STN

Full Text	References
AN	95:105869 USPATFULL
TI	Treatment of non-insulin-dependent diabetes
IN	<b>Sauvaire, Yves</b> , Montferrier sur Lez, France Ribes, Gerard, Montpellier, France
PA	Laboratories Monal, France (non-U.S. corporation)
PI	US 5470879 19951128
AI	US 1994-364079 19941223 (8)
RLI	Division of Ser. No. US 1993-113951, filed on 31 Aug 1993, now abandoned
PRAI	FR 1992-10644 19920907
DT	Utility
FS	Granted
LN.CNT	431
INCL	INCLM: 514/561.000
NCL	NCLM: 514/561.000
IC	[6]
	ICM: A61K035-78
EXF	514/561

L3 ANSWER 2 OF 2 USPATFULL on STN

Full Text	References
AN	92:9044 USPATFULL
TI	Process for the accelerated ageing and treatment of iris rhizomes
IN	Baccou, Jean-Claude, Montpellier, France Bessiere, Jean-Marie, St. Clement, France Boisseau, Patrick, Provence, France Faugeras, Pierre, Pour St. Espris, France Jouy, Nicholas, Juvignac, France Peyrot, Elysabette, Saint Cyr Au Mo, France <b>Sauvaire, Yves</b> , Montferrier Sur, France
PA	Commissariat a l'Energie Atomique, both of, France (non-U.S. government) Universite des Sciences et Techniques du Languedoc, both of, France (non-U.S. corporation)
PI	US 5085994 19920204
AI	US 1990-604572 19901026 (7)
PRAI	FR 1989-14042 19891026
DT	Utility
FS	Granted
LN.CNT	244

INCL INCLM: 435/148.000  
 INCLS: 435/173.000  
 NCL NCLM: 435/148.000  
 NCLS: 435/173.800  
 IC [5]  
 ICM: C12P007-26  
 ICS: C12N013-00  
 EXF 435/148; 435/173

=> **file merck**

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	22.64	22.85

FILE 'MRCK' ENTERED AT 20:46:32 ON 26 OCT 2004

COPYRIGHT (C) 2004 Merck & Co., Inc., Whitehouse Station, New Jersey, USA. All Rights

FILE COVERS FROM LATE 19TH CENTURY TO PRESENT. LAST UPDATE: AUGUST 2004

THE MERCK INDEX ONLINE is a service mark of Merck & Co., Inc., Whitehouse Station, NJ, USA and is registered in the United States Patent and Trademark Office.

=> **e hydroxyisoleucine**

E1	1	HYDROXYISOEUGENOL/BI
E2	1	HYDROXYISOINDOLINE/BI
E3	0 -->	HYDROXYISOLEUCINE/BI
E4	1	HYDROXYISONITROSOPROPIOPHENONE/BI
E5	1	HYDROXYISOPHTHALIC/BI
E6	1	HYDROXYISOPROPYL/BI
E7	2	HYDROXYISOPROPYLAMINE/BI
E8	1	HYDROXYISOVALERIC/BI
E9	1	HYDROXYISOXAZOLE/BI
E10	1	HYDROXYKAUR/BI
E11	45	HYDROXYL/BI
E12	23	HYDROXYLAMINE/BI

=> **e 4-hydroxyisoleucine**

E1	1	3ZN/BI
E2	5786	4/BI
E3	0 -->	4-HYDROXYISOLEUCINE/BI
E4	800	40/BI
E5	229	400/BI
E6	68	4000/BI
E7	5	40000/BI
E8	1	400000/BI
E9	1	40002/BI
E10	4	4001/BI
E11	1	4001323/BI
E12	1	40014/BI

=> **file medline**

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.60	23.45

FILE 'MEDLINE' ENTERED AT 20:47:42 ON 26 OCT 2004

FILE LAST UPDATED: 26 OCT 2004 (20041026/UP). FILE COVERS 1951 TO DATE.

On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD for details. OLD MEDLINE now back to 1951.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and [http://www.nlm.nih.gov/pubs/techbull/nd03/nd03\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html) for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 4-hydroxyisoleucine

2051551 4

15 HYDROXYISOLEUCINE

L4 10 4-HYDROXYISOLEUCINE

(4(W)HYDROXYISOLEUCINE)

=> d 1-10

L4 ANSWER 1 OF 10 MEDLINE on STN

Full Text	References
-----------	------------

AN 2004443395 MEDLINE

DN PubMed ID: 15350674

TI Genotoxicity testing of a fenugreek extract.

AU Flammang A M; Cifone M A; Erexxon G L; Stankowski L F Jr

CS Ross Products Division, Abbott Laboratories, 624 Cleveland Ave, Columbus, OH 43215-1724, USA.. [ann.flammang@abbott.com](mailto:ann.flammang@abbott.com)

SO Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association, (2004 Nov) 42 (11) 1769-75.

Journal code: 8207483. ISSN: 0278-6915.

CY England: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200410

ED Entered STN: 20040908

Last Updated on STN: 20041022

Entered Medline: 20041021

L4 ANSWER 2 OF 10 MEDLINE on STN

Full Text	References
-----------	------------

AN 2004404025 MEDLINE

DN PubMed ID: 15082420

TI Insulinotropic agent ID-1101 (4-hydroxyisoleucine) activates insulin signaling in rat.

AU Broca Christophe; Breil Vincent; Cruciani-Guglielmacci Celine; Manteghetti Michele; Rouault Christine; Derouet Michel; Rizkalla Salwa; Pau Bernard; Petit Pierre; Ribes Gerard; Ktorza Alain; Gross Rene; Reach Gerard; Taouis Mohammed

CS Laboratoire de Pharmacologie, Centre de Pharmacologie et Biotechnologies pour la Sante-Unite Mixte de Recherche 5160 Centre National de la Recherche Scientifique, Faculte de Medecine, 34060 Montpellier, France.. [christophe.broca@univ-montpl.fr](mailto:christophe.broca@univ-montpl.fr)

SO American journal of physiology. Endocrinology and metabolism, (2004 Sep) 287 (3) E463-71.

Journal code: 100901226. ISSN: 0193-1849.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200409

ED Entered STN: 20040814

Last Updated on STN: 20040911

Entered Medline: 20040910

L4 ANSWER 3 OF 10 MEDLINE on STN

Full Text ☐ Citing References ☐

AN 2002736689 MEDLINE  
 DN PubMed ID: 12498629  
 TI New legume sources as therapeutic agents.  
 AU Madar Zecharia; Stark Aliza H  
 CS The Hebrew University of Jerusalem, Faculty of Agricultural, Food and Environmental Quality Sciences, Institute of Biochemistry, Food Science and Nutrition, P.O. Box 12, Rehovot, 76100, Israel.. [madar@agri.huji.ac.il](mailto:madar@agri.huji.ac.il)  
 SO British journal of nutrition, (2002 Dec) 88 Suppl 3 S287-92. Ref: 45  
 Journal code: 0372547. ISSN: 0007-1145.  
 CY England: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 200302  
 ED Entered STN: 20021227  
 Last Updated on STN: 20030221  
 Entered Medline: 20030220

L4 ANSWER 4 OF 10 MEDLINE on STN

Full Text ☐ Citing References ☐

AN 2002093541 MEDLINE  
 DN PubMed ID: 11740101  
 TI Full stereochemical understanding in a new (2R,3R,4R)-4-hydroxyisoleucine synthesis.  
 AU Rolland M; Kassem T; Rolland V; Martinez J  
 CS Laboratoire des Aminoacides, Peptides et Proteines, Universite Montpellier I et II, Faculte de Pharmacie, UMR CNRS 5810, 15 Avenue Charles Flahault, 34060 Montpellier CEDEX 2, France.. [rolland@colombes.pharma.univ-montpl.fr](mailto:rolland@colombes.pharma.univ-montpl.fr)  
 SO Acta crystallographica. Section C, Crystal structure communications, (2001 Dec) 57 (Pt 12) 1415-7.  
 Journal code: 8305826. ISSN: 0108-2701.  
 CY Denmark  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS PUBMED-NOT-MEDLINE  
 EM 200202  
 ED Entered STN: 20020202  
 Last Updated on STN: 20020227  
 Entered Medline: 20020226

L4 ANSWER 5 OF 10 MEDLINE on STN

Full Text ☐ Citing References ☐

AN 2000469059 MEDLINE  
 DN PubMed ID: 10944320  
 TI Two key chiral intermediates in a new 4-hydroxyisoleucine synthesis.  
 AU Kassem T; Rolland V; Martinez J; Rolland M  
 CS Laboratoire des Aminoacides, Peptides et Proteines, Universite Montpellier I et II, Faculte de Pharmacie, UMR CNRS 5810, 15 Avenue Charles Flahault, 34060 Montpellier CEDEX 2, France.  
 SO Acta crystallographica. Section C, Crystal structure communications, (2000 Aug) 56 (Pt 8) 1037-9.  
 Journal code: 8305826. ISSN: 0108-2701.  
 CY Denmark  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200010  
 ED Entered STN: 20001012



Last Updated on STN: 20001012  
Entered Medline: 20001005

L4 ANSWER 6 OF 10 MEDLINE on STN

	Full Text	References
AN	2000175398	MEDLINE
DN	PubMed ID: 10708743	
TI	<b>4-Hydroxyisoleucine:</b> effects of synthetic and natural analogues on insulin secretion.	
AU	Broca C; Manteghetti M; Gross R; Baissac Y; Jacob M; Petit P; Sauvaire Y; Ribes G	
CS	UMR 9921 du Centre National de la Recherche Scientifique, Montpellier, France.. <a href="mailto:broca@zeus.sc.univ-montpl.fr">broca@zeus.sc.univ-montpl.fr</a>	
SO	European journal of pharmacology, (2000 Mar 3) 390 (3) 339-45. Journal code: 1254354. ISSN: 0014-2999.	
CY	Netherlands	
DT	Journal; Article; (JOURNAL ARTICLE)	
LA	English	
FS	Priority Journals	
EM	200005	
ED	Entered STN: 20000518 Last Updated on STN: 20000518 Entered Medline: 20000511	

L4 ANSWER 7 OF 10 MEDLINE on STN

	Full Text	References
AN	1999447236	MEDLINE
DN	PubMed ID: 10516120	
TI	<b>4-Hydroxyisoleucine:</b> experimental evidence of its insulinotropic and antidiabetic properties.	
AU	Broca C; Gross R; Petit P; Sauvaire Y; Manteghetti M; Tournier M; Masiello P; Gomis R; Ribes G	
CS	Unite Mixte de Recherche 9921 du Centre National de la Recherche Scientifique, Faculte de Medecine UPRES EA 1677, 34060 Montpellier, France. <a href="mailto:broca2zeus.sc.univ-montpl.fr">broca2zeus.sc.univ-montpl.fr</a>	
SO	American journal of physiology, (1999 Oct) 277 (4 Pt 1) E617-23. Journal code: 0370511. ISSN: 0002-9513.	
CY	United States	
DT	Journal; Article; (JOURNAL ARTICLE)	
LA	English	
FS	Priority Journals	
EM	199911	
ED	Entered STN: 20000111 Last Updated on STN: 20000111 Entered Medline: 19991122	

L4 ANSWER 8 OF 10 MEDLINE on STN

	Full Text	References
AN	1998178529	MEDLINE
DN	PubMed ID: 9519714	
TI	<b>4-Hydroxyisoleucine:</b> a novel amino acid potentiator of insulin secretion.	
AU	Sauvaire Y; Petit P; Broca C; Manteghetti M; Baissac Y; Fernandez-Alvarez J; Gross R; Roye M; Leconte A; Gomis R; Ribes G	
CS	Laboratoire de Recherche sur les Substances Naturelles Vegetales, Universite Montpellier II, France.	
SO	Diabetes, (1998 Feb) 47 (2) 206-10. Journal code: 0372763. ISSN: 0012-1797.	
CY	United States	
DT	Journal; Article; (JOURNAL ARTICLE)	
LA	English	
FS	Abridged Index Medicus Journals; Priority Journals	
EM	199804	

ED Entered STN: 19980416  
Last Updated on STN: 19980416  
Entered Medline: 19980403

L4 ANSWER 9 OF 10 MEDLINE on STN

Full Text Citing References

AN 97194135 MEDLINE  
DN PubMed ID: 9041713  
TI Characterization of a dioxygenase from *Trigonella foenum-graecum* involved in **4-hydroxyisoleucine** biosynthesis.  
AU Haefele C; Bonfils C; Sauvaire Y  
CS Laboratoire de Recherche sur les Substances Naturelles Vegetales, UPR ES 1677, CP 024, Universite Montpellier II, France.  
SO Phytochemistry, (1997 Feb) 44 (4) 563-6.  
Journal code: 0151434. ISSN: 0031-9422.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Biotechnology  
EM 199703  
ED Entered STN: 19970407  
Last Updated on STN: 19970407  
Entered Medline: 19970324

L4 ANSWER 10 OF 10 MEDLINE on STN

Full Text Citing References

AN 79224186 MEDLINE  
DN PubMed ID: 461558  
TI The detection of isomers of **4-hydroxyisoleucine** by the Jeol Amino Acid Analyser and by TLC. The detection of isomers of **4-hydroxyisoleucine** by the Jeol Amino Acid Analyser and by TLC.  
AU Hardman R; Abu-Al-Futuh I M  
SO Planta medica, (1979 May) 36 (1) 79-84.  
Journal code: 0066751. ISSN: 0032-0943.  
CY GERMANY, WEST: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 197909  
ED Entered STN: 19900315  
Last Updated on STN: 19900315  
Entered Medline: 19790925

=> d an ti au so kwic ab 8

L4 ANSWER 8 OF 10 MEDLINE on STN

Full Text Citing References

AN 1998178529 MEDLINE  
TI **4-Hydroxyisoleucine**: a novel amino acid potentiator of insulin secretion.  
AU Sauvaire Y; Petit P; Broca C; Manteghetti M; Baissac Y; Fernandez-Alvarez J; Gross R; Roye M; Leconte A; Gomis R; Ribes G  
SO Diabetes, (1998 Feb) 47 (2) 206-10.  
Journal code: 0372763. ISSN: 0012-1797.  
TI **4-Hydroxyisoleucine**: a novel amino acid potentiator of insulin secretion.  
AB We report the characterization of a new insulinotropic compound, **4-hydroxyisoleucine**. This amino acid has been extracted and purified from fenugreek seeds, which are known in traditional medicine for their antidiabetic properties. **4-Hydroxyisoleucine** increases glucose-induced insulin release, in the concentration range of 100 micromol/l to 1 mmol/l, through a direct effect on isolated islets of Langerhans from both rats

and humans. The stimulating effect of **4-hydroxyisoleucine** was strictly glucose dependent; indeed, ineffective at low (3 mmol/l) or basal (5 mmol/l) glucose concentrations, the amino acid potentiated. . . In addition, in the isolated perfused rat pancreas, we could show 1) that the pattern of insulin secretion induced by **4-hydroxyisoleucine** was biphasic, 2) that this effect occurred in the absence of any change in pancreatic alpha- and delta-cell activity, and 3) that the more glucose concentration was increased, the more insulin response was amplified. Moreover, **4-hydroxyisoleucine** did not interact with other agonists of insulin secretion (leucine, arginine, tolbutamide, glyceraldehyde). Therefore, we conclude that **4-hydroxyisoleucine** insulinotropic activity might, at least in part, account for fenugreek seeds' antidiabetic properties. This secretagogue may be considered as a . . .

CN 0 (**4-hydroxyisoleucine**); 0 (Hypoglycemic Agents); 0 (Plant Extracts)  
 AB We report the characterization of a new insulinotropic compound, **4-hydroxyisoleucine**. This amino acid has been extracted and purified from fenugreek seeds, which are known in traditional medicine for their antidiabetic properties. **4-Hydroxyisoleucine** increases glucose-induced insulin release, in the concentration range of 100 micromol/l to 1 mmol/l, through a direct effect on isolated islets of Langerhans from both rats and humans. The stimulating effect of **4-hydroxyisoleucine** was strictly glucose dependent; indeed, ineffective at low (3 mmol/l) or basal (5 mmol/l) glucose concentrations, the amino acid potentiated the insulin secretion induced by supranormal (6.6-16.7 mmol/l) concentrations of glucose. In addition, in the isolated perfused rat pancreas, we could show 1) that the pattern of insulin secretion induced by **4-hydroxyisoleucine** was biphasic, 2) that this effect occurred in the absence of any change in pancreatic alpha- and delta-cell activity, and 3) that the more glucose concentration was increased, the more insulin response was amplified. Moreover, **4-hydroxyisoleucine** did not interact with other agonists of insulin secretion (leucine, arginine, tolbutamide, glyceraldehyde). Therefore, we conclude that **4-hydroxyisoleucine** insulinotropic activity might, at least in part, account for fenugreek seeds' antidiabetic properties. This secretagogue may be considered as a novel drug with potential interest for the treatment of NIDDM.

=>